**Unit 1: Linear Systems Quiz**

**Connecting English with Mathematics**

1. Translate each phrase into an algebraic expression (2 marks)
   1. Twice a distance
   2. Seven percent of a price
2. For Each of the following, write a word or phrase that has the opposite meaning

(2 marks)

* 1. Added
  2. Plus

1. LC Video rents a game console for $10 and video games for $3 each. Bid Vid rents a game console for $7 and video games for $4 each. (2 marks)
   1. Write a linear equation to represent the total cost of renting a game machine and some video games from LC video
   2. Write a linear equation to represent the total cost of renting a game machine and some video games from Big Vid.

**Method of Substitution**

1. Solve each linear system using the method of substitution (8 marks)  
   1. Y = 3x – 4 b. 2x + 3y = -1  
      x + y = 8 x = 1 - y
2. Is (2, -4) the solution to the following linear system: (2 marks)  
     
   2x + y = 0  
   6x + 3y = 0

**Equivalent Linear Systems**

1. Write two equivalent equations for each linear system (4 marks)  
   1. Y = 3x – 2
   2. 2x + 2y = 4